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ROLL NO: [225229110](#)
LAB SHEET-3

```
In [3]: def isprime(n):
        for i in range(2,int(n**0.5)+1):
            if n%i==0:
                return False
        return True
n=int(input("enter a number to check : "))
if(n>100):
    print("enter num below 100 ")
else:
    print(isprime(n))

for num in range(1,100+1):
    if num > 1:
        for i in range(2, num):
            if (num % i) == 0:
                break
        else:
            print(num)
```

enter a number to check : 5

True

2

3

5

7

11

13

17

19

23

29

31

37

41

43

47

53

59

61

67

71

73

79

83

89

97

In []:

In [*]:

In []:

```
In [1]: def add(a,b):
        result=a+b
        print('a=',a,'b=',b,'a+b=',result)
    def mul(a,b):
        result=a*b
        print('a=',a,'b=',b,'a*b=',result)
    def sub(a,b):
        result=a-b
        print('a=',a,'b=',b,'a-b=',result)
    def div(a,b):
        result=a/b
        print('a=',a,'b=',b,'a/b=',result)
    while True:
        opr=input("enter opr<# to quit>:")
        if(opr=="#"):
            break
        o1=int(input("enter the op1:"))
        o2=int(input("enter the op2:"))
        if(opr=="+"):
            add(o1,o2)
        elif(opr=="-"):
            sub(o1,o2)
        elif(opr=="*"):
            mul(o1,o2)
        elif(opr=="/"):
            div(o1,o2)
```

```
enter opr<# to quit>:*
enter the op1:6
enter the op2:6
a= 6 b= 6 a*b= 36
enter opr<# to quit>:+
enter the op1:6
enter the op2:45
a= 6 b= 45 a+b= 51
enter opr<# to quit>:/
enter the op1:7
enter the op2:7
a= 7 b= 7 a/b= 1.0
enter opr<# to quit>:-
enter the op1:20
enter the op2:15
a= 20 b= 15 a-b= 5
enter opr<# to quit>:#
```

```
In [2]: def fact(n):  
        if n==0:  
            return 1  
        else:  
            return n* fact(n-1)  
n=int(input("enter the integer: "))  
print(fact(n))
```

```
enter the integer: 9  
362880
```

```
In [ ]:
```